

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| L1    | 2    | "5973559".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/04/02 09:32 |
| L2    | 2    | "5083094".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/04/02 09:32 |
| L3    | 13   | ("5083094").URPN.   | USPAT  | OR               | ON      | 2007/04/02 09:33 |
| L4    | 8    | ("4016503"   "4311965"  <br>"4315222"   "4477781"  <br>"4549152"   "4618831"  <br>"4755769"   "4841262").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                     | OR               | ON      | 2007/04/02 09:38 |
| L5    | 1    | (jorg near walbracht).in.   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/04/02 09:45 |
| L6    | 165  | (@ad   @pt1d   @frpd   @read  <br>@rlad   @ptad) < "20030904" and<br>(push\$pull or push adj pull) with<br>phase with amplifier and<br>amplitude and (modulat\$4 or<br>modif\$7 or shift\$4) not optical  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/04/02 10:19 |
| L7    | 473  | (@ad   @pt1d   @frpd   @read  <br>@rlad   @ptad) < "20030904" and<br>(push\$pull or push adj pull or<br>"180" adj degree) with phase with<br>amplifier and (modulat\$4 or<br>modif\$7 or shift\$4) not optical not<br>L6 and (split\$4 or divid\$4) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/04/02 10:19 |
| L8    | 136  | (@ad   @pt1d   @frpd   @read  <br>@rlad   @ptad) < "20030904" and<br>(push\$pull or push adj pull or<br>"180" adj degree or opposit near2<br>phase) with phase with amplifier<br>not optical not L6 and (split\$4 or<br>divid\$4) not L7            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/04/02 10:20 |
| L9    | 2    | "5568088".pn.   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/04/02 12:10 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S3  | 303 | (push adj pull or pull adj push)<br>near1 phase  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/31 11:22 |
| S4  | 52  | ((push adj pull) or (pull adj push))<br>adj phase  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/27 14:03 |
| S5  | 127 | class adj2 type adj amplif\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/27 14:37 |
| S6  | 2   | ((push adj pull) or (pull adj push))<br>near4 phase near2 modif\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/27 14:03 |
| S7  | 2   | phase adj2 modif\$7 with (push adj<br>pull or pull adj push)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/27 14:39 |
| S8  | 2   | phase adj2 modif\$7 same (push<br>adj pull or pull adj push)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/27 14:39 |
| S9  | 189 | phase adj2 modif\$7 same<br>amplif\$7  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/27 16:01 |
| S10 | 2   | "5973559".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/27 16:26 |
| S11 | 2   | "5083094".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/27 16:27 |
| S12 | 8   | ("4016503"   "4311965"  <br>"4315222"   "4477781"  <br>"4549152"   "4618831"  <br>"4755769"   "4841262").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/10/27 16:43 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S13 | 12  | ("5083094").URPN.   | USPAT   | OR | ON | 2006/10/27 16:50 |
| S14 | 8   | ("4761625"   "5083094"  <br>"5376901"   "5517203"  <br>"6081170"   "6154181"  <br>"6297714"   "6392508").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/10/27 16:51 |
| S15 | 0   | ("6573810").URPN.   | USPAT   | OR | ON | 2006/10/27 16:51 |
| S16 | 9   | ("3375458"   "4010426"  <br>"4064464"   "4383189"  <br>"5222246"   "5287543"  <br>"5304943"   "5831479").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/10/27 17:06 |
| S17 | 12  | (push adj pull or pull adj push)<br>with phase same (non adj linear or<br>nonlinear) with amplif\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/31 11:26 |
| S18 | 98  | (push adj pull or pull adj push)<br>with phase and (non adj linear or<br>nonlinear) with amplif\$6 not S17  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/31 14:39 |
| S19 | 4   | ("4887045"   "6204731"  <br>"6469581"   "6636116").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/10/31 12:47 |
| S20 | 0   | ("7061317").URPN.   | USPAT   | OR | ON | 2006/10/31 12:50 |
| S21 | 16  | (push adj pull or pull adj push)<br>same phase near3 modulat\$4 and<br>(non adj linear or nonlinear) with<br>amplif\$6 not S17                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/31 14:45 |
| S22 | 15  | 330/107,140.ccls. and phase and<br>((push adj pull) or (pull adj push))<br>and (@rlad<"20030905" or<br>@ad<"20030905" or<br>@ptad<"20030905")         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 12:44 |
| S23 | 0   | 330/107,140.ccls. and phase and<br>((push adj pull) or (pull adj push))<br>and (@rlad<"20040905" or<br>@ad<"20040905" or<br>@ptad<"20040905") not S22 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 12:03 |
| S24 | 316 | 330/107,140.ccls. and phase and<br>amplif\$5 and (@rlad<"20040905"<br>or @ad<"20040905" or<br>@ptad<"20040905")                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 12:04 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S25 | 301 | 330/107,140.ccls. and phase and amplif\$5 and (@rlad<"20040905" or @ad<"20040905" or @ptad<"20040905")not S22                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 12:23 |
| S26 | 165 | 330/107,140.ccls. and phase with (modif\$5 or shift\$4) and amplif\$5 and (@rlad<"20040905" or @ad<"20040905" or @ptad<"20040905")not S22 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 12:46 |
| S27 | 9   | 455/126.ccls. and (push adj pull or pull adj push)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:05 |
| S28 | 8   | 455/205,110.ccls. and (push adj pull or pull adj push)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:18 |
| S29 | 8   | 455/205,110.ccls. and (push adj pull or pull adj push)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:22 |
| S30 | 159 | 455/205,110.ccls. and phase with (modif\$6 or shift\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:38 |
| S31 | 146 | S30 and (@rlad<"20030905" or @ad<"20030905" or @ptad<"20030905")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:38 |
| S32 | 106 | S30 and amplif\$6 and (@rlad<"20030905" or @ad<"20030905" or @ptad<"20030905")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:27 |
| S33 | 129 | 455/127.1.ccls. and phase with (modif\$6 or shift\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:47 |
| S34 | 105 | S33 and (@rlad<"20030905" or @ad<"20030905" or @ptad<"20030905")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:38 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S35 | 99   | 455/127.1.ccls. and phase with (modif\$6 or shift\$4) and amplif\$6 and S34  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:39 |
| S36 | 25   | 455/127.1.ccls. and (push adj pull or pull adj push)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:48 |
| S37 | 24   | 330/107,140.ccls. and (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and push near2 pull   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 13:07 |
| S38 | 401  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and push near2 pull with phase with (modulat\$4 or modif\$7)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 14:12 |
| S39 | 303  | S38 and (transform\$5 or coupl\$4 or rectif\$6 or de\$coupl\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 13:31 |
| S40 | 56   | S39 not optical  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 13:31 |
| S41 | 15   | S38 not S39 not optical  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 13:47 |
| S42 | 2521 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase near4 (modulat\$4 or modif\$7) same amplifier same (transform\$6 or coupl\$4) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 15:12 |
| S43 | 113  | S42 and push near2 pull  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 14:19 |
| S44 | 76   | S43 not optical  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 14:20 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S45 | 296  | "330".clas. and (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase near4 (modulat\$4 or modif\$7) same amplifier same (transform\$6 or coupl\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 17:14 |
| S46 | 58   | "330".clas. and (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase near4 (modulat\$4 or modif\$7) same amplifier same (transform\$6 or uncoupl\$4 or decoupl\$4)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/21 17:25 |
| S47 | 251  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and 455/127.1-127.5.ccls. and phase near3 (modulat\$4 or modif\$7)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 14:11 |
| S48 | 1333 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "330".clas. and phase near3 (modulat\$4 or modif\$7)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 14:12 |
| S49 | 1333 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "330".clas. and phase near3 (modulat\$4 or modif\$7)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 14:16 |
| S50 | 803  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "330".clas. and phase near3 (modulat\$4 or modif\$7) and (feed adj back or feed\$back)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 14:17 |
| S51 | 690  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "330".clas. and phase near3 (modulat\$4 or modif\$7) and (feed adj back or feed\$back) and (transformer or decoupl\$4 or coupl\$4 or uncoupl\$4) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 17:27 |
| S52 | 305  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "330".clas. and phase near3 (modulat\$4 or modif\$7) and (transformer or wast\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 17:29 |
| S53 | 87   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "330".clas. and phase near3 (modulat\$4 or modif\$7) and (wast\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 17:36 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S54 | 318 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "330".clas. and (push\$pull or push adj pull) with phase   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 09:44 |
| S55 | 300 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "330".clas. and (push\$pull or push adj pull) with phase and amplif\$4 not optical   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 10:03 |
| S56 | 206 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "330".clas. and (push\$pull or push adj pull) with phase and amplif\$4 not optical not audio   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 15:06 |
| S57 | 29  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and "455".clas. and (push\$pull or push adj pull) with phase and amplif\$4 not optical not audio   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 10:54 |
| S58 | 520 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and (push\$pull or push adj pull) with phase and amplif\$4 not optical not audio not S56 not S57   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 11:52 |
| S59 | 19  | ("3649927"   "3917998"   "4056786"   "4068186"   "4319359"   "4477781"   "4591800"   "4595882"   "4618831"   "4899162"   "4901085"   "5012254"   "5054052"   "5073751"   "5093668"   "5119042"   "5192919"   "5264807"   "5351016").PN.                                     | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/30 11:13 |
| S60 | 30  | ("5568088").URPN.   | USPAT   | OR | ON | 2007/03/30 11:21 |
| S61 | 23  | ("2210028"   "3777275"   "3805139"   "3906401"   "3909742"   "3927379"   "4090147"   "4178557"   "4315107"   "4420723"   "4433312"   "4485357"   "4580111"   "5086450"   "5420541"   "5453717"   "5568088"   "5574967"   "5631604"   "5638024"   "5734565"   "5815531").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/30 11:27 |
| S62 | 23  | ("6133788").URPN.   | USPAT   | OR | ON | 2007/03/30 11:36 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S63 | 237  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and wast\$3 near3 (energy or power) with control and amplifier and phase                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 12:11 |
| S64 | 1081 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and wast\$3 near3 (energy or power) and amplifier same phase not S63                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 12:28 |
| S65 | 281  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and ("455".clas. or "330".clas.) and wast\$3 near3 (energy or power) and amplifier same phase not S63 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 12:12 |
| S66 | 110  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20040905" and wast\$3 near3 (energy or power) and amplifier same phase not S63 and push\$pull                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 13:31 |
| S67 | 852  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and 330/255,262-276,55,118-123.ccls. and phase  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 15:13 |
| S68 | 36   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and 330/255,262-276,55,118-123.ccls. and phase near5 (modulat\$4 or modif\$7)                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 15:26 |
| S69 | 203  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and 330/255,262-276,55,118-123.ccls. and phase near5 (modulat\$4 or modif\$7 or shift\$4)             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 16:42 |
| S70 | 454  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and 455/127.1-127.5,571-574.ccls. and phase near5 (modulat\$4 or modif\$7 or shift\$4)                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 17:15 |
| S71 | 24   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and 455/127.1-127.5,571-574.ccls. and phase near5 (modulat\$4 or modif\$7 or shift\$4) and push\$pull | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 16:58 |



## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S72 | 24  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and 455/127.1-127.5,571-574.ccls. and phase near5 (modulat\$4 or modif\$7 or shift\$4) and (push\$pull or push adj pull) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/30 16:55 |
| S73 | 2   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and 455/127.1-127.5,571-574.ccls. and edge and push\$pull  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/30 16:59 |
| S74 | 11  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and 455/127.1-127.5,571-574.ccls. and polar and push\$pull   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/30 16:59 |
| S75 | 34  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and 455/127.1-127.5,571-574.ccls. and phase and push\$pull   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/30 17:16 |
| S77 | 815 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase with push\$pull and (polar or edge)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/30 17:17 |
| S78 | 117 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase with push\$pull and (polar and edge)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/30 17:17 |
| S79 | 5   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase with push\$pull and (polar and edge) not optical   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/30 17:17 |
| S81 | 245 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase with push\$pull and (polar or edge) not optical  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/30 17:19 |
| S82 | 5   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase with push\$pull and (polar and edge) not optical   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/30 17:24 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S83 | 105 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase with push\$pull and (amplitude and edge) not optical   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 17:20 |
| S85 | 52  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase and push\$pull and (polar and edge) and amplitude not optical  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 17:26 |
| S86 | 3   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and "455".clas. and phase and push\$pull and (polar and edge) and amplitude not optical                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 17:27 |
| S88 | 117 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and "455".clas. and phase and (polar and edge) and amplitude and modulats4 not optical                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 17:59 |
| S93 | 117 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and "455".clas. and phase and (polar and (edge or enhanced adj data adj3 GSM)) and amplitude and modulats4 not optical | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 18:00 |
| S95 | 21  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase and (polar and (edge or enhanced adj data adj3 GSM)) and amplitude and modulats4 and push\$pull not optical  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 13:23 |
| S97 | 52  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase and (polar and (edge or enhanced adj data adj3 GSM)) and amplitude and push\$pull not optical                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 13:40 |
| S98 | 0   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase and (enhanced adj data adj3 GSM) and amplitude and push\$pull  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 13:41 |
| S99 | 0   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and phase and (enhanced adj data adj3 GSM) and push\$pull  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 13:41 |

## EAST Search History

|          |     |   |   |    |    |                  |
|----------|-----|---|---|----|----|------------------|
| S10<br>0 | 1   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and (enhanced adj data adj3 GSM) and push\$pull  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 13:42 |
| S10<br>1 | 18  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and (enhanced adj data adj3 GSM) and (push\$pull or push adj pull)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 13:43 |
| S10<br>2 | 1   | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and (push\$pull or push adj pull) with phase with modifier   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 13:48 |
| S10<br>5 | 229 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and (push\$pull or push adj pull) with phase with amplifier and amplitude and (modulat\$4 or modif\$7 or shift\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 14:28 |
| S10<br>6 | 2   | ("4772856"   "6201445").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/31 14:05 |
| S10<br>7 | 2   | ("6545542").URPN.   | USPAT   | OR | ON | 2007/03/31 14:16 |
| S10<br>8 | 165 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and (push\$pull or push adj pull) with phase with amplifier and amplitude and (modulat\$4 or modif\$7 or shift\$4) not optical   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 14:18 |
| S10<br>9 | 847 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and (push\$pull or push adj pull or "180" adj degree) with phase with amplifier and (modulat\$4 or modif\$7 or shift\$4) not optical not S108                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 14:30 |
| S11<br>1 | 473 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and (push\$pull or push adj pull or "180" adj degree) with phase with amplifier and (modulat\$4 or modif\$7 or shift\$4) not optical not S108 and (split\$4 or divid\$4) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 10:18 |
| S11<br>2 | 6   | ("5454013"   "6236284"   "6285255"   "6366177"   "6377784"   "6411655").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/31 14:47 |

## EAST Search History

|          |      |   |   |    |    |                  |
|----------|------|---|---|----|----|------------------|
| S11<br>3 | 3    | ("6751265").URPN.   | USPAT   | OR | ON | 2007/03/31 14:50 |
| S11<br>4 | 29   | ("4772856").URPN.   | USPAT   | OR | ON | 2007/03/31 16:35 |
| S11<br>5 | 1222 | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and (push\$pull or push adj pull or "180" adj degree) with phase and amplifier and (modulat\$4 or modif\$7 or shift\$4) not optical not S108 and (transformer or decoupl\$4 or waste adj energy) not S111                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/31 17:44 |
| S11<br>6 | 814  | (@ad   @pt1d   @frpd   @read   @rlad   @ptad) < "20030904" and (push\$pull or push adj pull or "180" adj degree) with phase and amplifier and (modulat\$4 or modif\$7 or shift\$4) not optical not S108 and (transformer or decoupl\$4 or waste adj energy) not S111 and (split\$4 or divid\$4) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 09:31 |